

WHAT IS CLAIMED IS:

- 1 1. A pharmacological composition comprising:
 - 2 (A) at least one biologically-active agent; and
 - 3 (B) at least one carrier compound having the formula



5 wherein Ar is a substituted or unsubstituted phenyl or naphthyl;

6 R⁷ is selected from the group consisting of C₄ to C₂₀ alkyl, C₄ to C₂₀
7 alkenyl, phenyl, naphthyl, (C₁ to C₁₀ alkyl) phenyl, (C₁ to C₁₀ alkenyl) phenyl, (C₁ to C₁₀
8 alkyl) naphthyl, (C₁ to C₁₀ alkenyl) naphthyl, phenyl (C₁ to C₁₀ alkyl), phenyl (C₁ to C₁₀
9 alkenyl), naphthyl (C₁ to C₁₀ alkyl), and naphthyl (C₁ to C₁₀ alkenyl);

10 R⁸ is selected from the group consisting of hydrogen, C₁ to C₄ alkyl, C₁
11 to C₄ alkenyl, C₁ to C₄ alkenyl, hydroxy, and C₁ to C₄ alkoxy;

12 R⁸ is optionally substituted with C₁ to C₄ alkyl, C₁ to C₄ alkenyl, C₁ to C₄
13 alkoxy, -OH, -SH and -CO₂R⁹ or any combination thereof;

14 R⁹ is hydrogen, C₁ to C₄ alkyl or C₁ to C₄ alkenyl;

15 R⁷ is optionally interrupted by oxygen, nitrogen, sulfur or any combination
16 thereof;

17 with the proviso that the compounds are not substituted with an amino
18 group in the position alpha to the acid group;
19 or salts thereof.

- 1 2. The composition according to claim 1, wherein said biologically-active
2 agent comprises at least one peptide, mucopolysaccharide, carbohydrate, or lipid.

- 1 3. The composition according to claim 2, wherein said biologically active
2 agent is selected from the group consisting of human growth hormone, bovine growth
3 hormone, growth hormone-releasing hormone, an interferon, interleukin-II, insulin,

4 heparin, calcitonin, erythropoietin, atrial natriuretic factor, an antigen, a monoclonal
 5 antibody, somatostatin, adrenocorticotropin, gonadotropin releasing hormone,
 6 oxytocin, vasopressin, cromolyn sodium, vancomycin, parathyroid hormone,
 7 desferrioxamine (DFO), or any combination thereof.

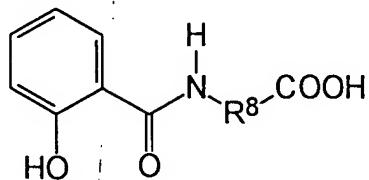
1 4. The composition according to claim 2, wherein said biologically-active
 2 agent comprises an interferon, interleukin-II, insulin, heparin, calcitonin, oxytocin,
 3 vasopressin, vancomycin, DFSO and combinations thereof.

1 5. The composition according to claim 4, wherein said biologically-active
 2 agent comprises calcitonin.

1 6. The composition according to claim 1, wherein R⁶ is selected from the
 2 group consisting of C₄ to C₂₀ alkyl and C₄ to C₂₀ alkenyl.

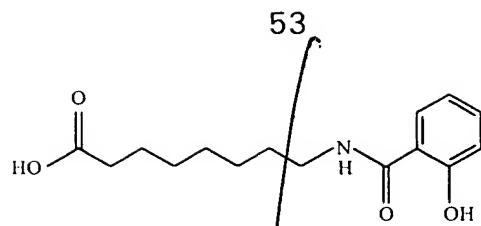
1 7. The composition according to claim 1, wherein R⁶ is selected from the
 2 group consisting of C₅ to C₂₀ alkyl and C₅ to C₂₀ alkenyl.

1 8. The composition according to claim 1 wherein the carrier has the formula



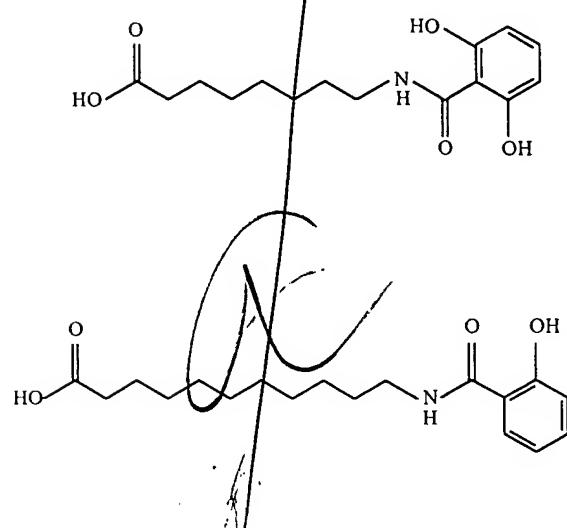
1 9. The composition according to claim 1 wherein said carrier is a compound
 2 selected from the group consisting of

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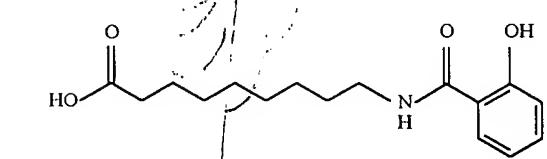
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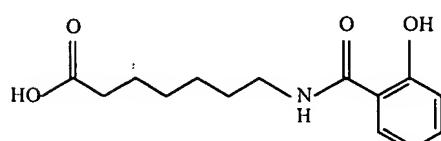
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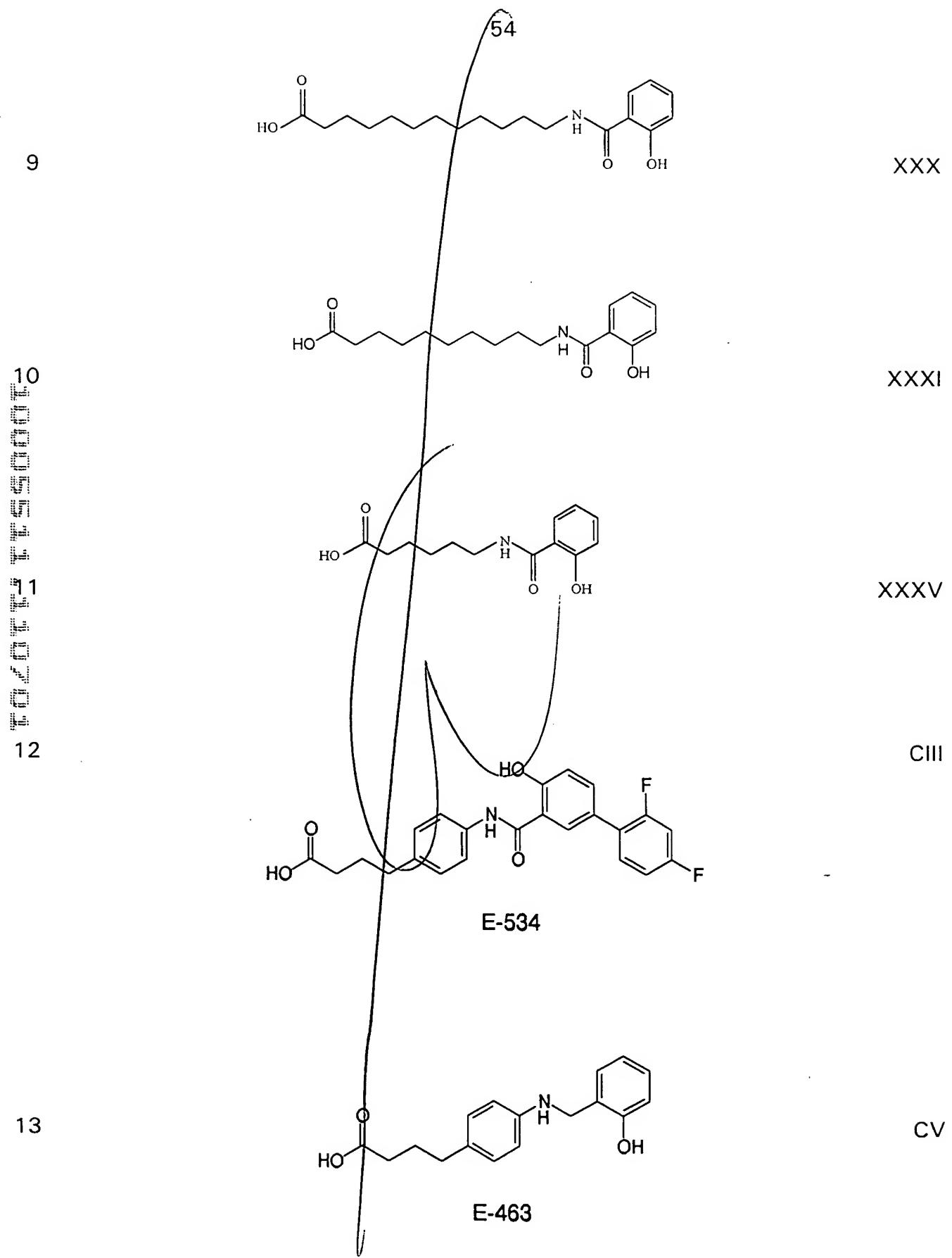


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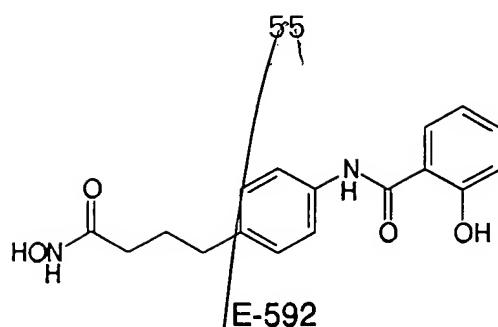
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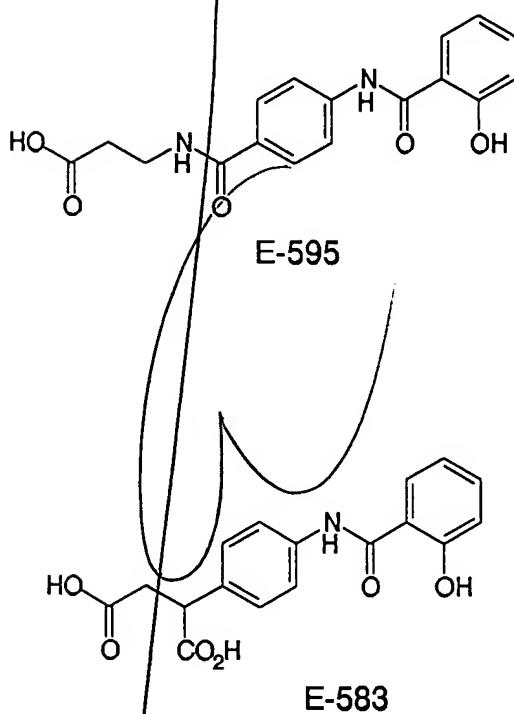


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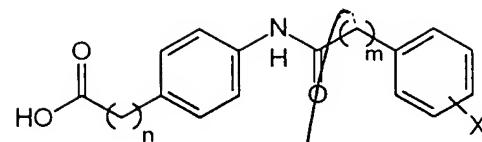


CX

17 or salts thereof.

1 10. The composition according to claim 1 wherein the carrier is a compound
2 selected from the group consisting of

3



A

4

Compound n m X

5

LII 1 0 2-OH

6

LIII 3 0 2,6-dihydroxy

7

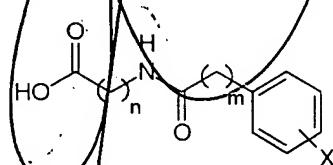
LIV 2 0 2-OH

8

LVI 2 0 2,6-dihydroxy

or salts thereof.

11. The composition according to claim 1 wherein the carrier is a compound selected from the group consisting of



G

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Compound n m X

5

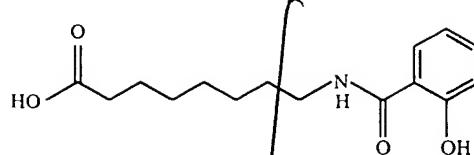
CXI 6 0 2-OH

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CXIX 9 0 2-OH

7 or salts thereof.

12. The composition according to claim 1, wherein said carrier has the formula

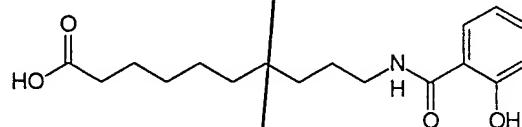


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4 or salts thereof.

1 13. The composition according to claim 1, wherein said The composition
2 according to claim 1 wherein the carrier has the formula



XXXI

4 or salts thereof.

1 14. A dosage unit form comprising

2 (A) a pharmacological composition according to claim 1; and
3 (B) (a) an excipient,
4 (b) a diluent,
5 (c) a disintegrant,
6 (d) a lubricant,
7 (e) a plasticizer,
8 (f) a colorant,
9 (g) a dosing vehicle, or
10 (h) any combination thereof.

1 15. A dosage unit form according to claim 14, comprising a tablet, a capsule,
2 or a liquid.

1 16. A dosage unit form according to claim 15, wherein said dosing vehicle
2 is selected from the group consisting of water, 1,2-propane diol, ethanol or any
3 combination thereof.

1 17. A method for administering a biologically-active agent to a mammal in
2 need of said agent, said method comprising administering orally to said mammal a
3 composition as defined in claim 1.

1 18. A method for preparing a pharmacological composition, said method
2 comprising mixing:

- (A) at least one biologically-active agent;
- (B) at least one carrier compound according to claim 1; and
- (C) optionally a dosing vehicle.

1 19. A method for administering a biologically-active agent to a animal in need
2 of said agent, said method comprising administering orally to said mammal a
3 composition as defined in claim 1.

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